

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2000123850  
PUBLICATION DATE : 28-04-00

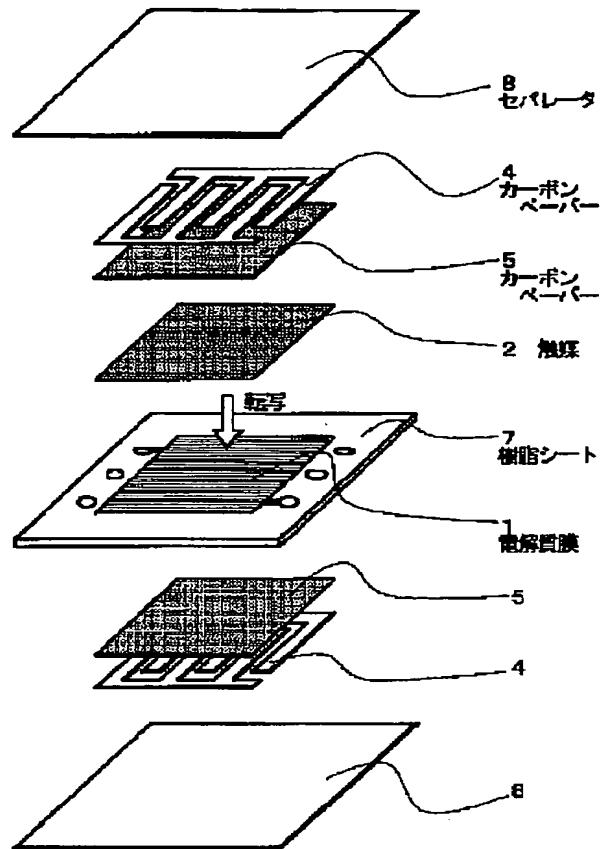
APPLICATION DATE : 15-10-98  
APPLICATION NUMBER : 10293219

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : KINOSHITA SHINJI;

INT.CL. : H01M 8/02 H01M 4/86 H01M 8/10

TITLE : SOLID POLYMER ELECTROLYTE  
FUEL CELL



ABSTRACT : PROBLEM TO BE SOLVED: To provide a compact and inexpensive solid polymer electrolyte fuel cell by forming a unit cell as a thin type at a low cost.

SOLUTION: A catalyst 2 is transferred to both surfaces of an electrolyte membrane 1 held on a resin sheet 3 like a picture frame, thereby preparing a membrane electrode complex body (MEA). Also, carbon paper 5 as a gas dispersion layer is attached to both external surfaces of MEA and cutout carbon paper 4 is attached to the external surfaces of the carbon paper 5 as a gas flow passage constituting member. A separator 6 made of their sheet metal is provided at the outermost layer, thereby forming a unit cell. In this case, the space of the lacking part of the carbon paper 4 due to cutting between the carbon paper 5 and the separator 6 is used as a gas flow passage for reaction gas.

COPYRIGHT: (C)2000,JPO

**BEST AVAILABLE COPY**